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**Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
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TITLE

STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF MAY 12, 1968

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STATUS OF IRRADIATIONS PERFORMED BY
TESTING AND IRRADIATION SERVICES FOR BNW
AS OF MAY 12, 1968

L. V. Barker

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This report itemizes the irradiations performed by Testing and Irradiation Services for Battelle-Northwest. It lists the material being irradiated, awaiting disposition and material shipped during the report period. An explanation of the various columns in the report follows:

Identification

- a. TISR No. - This is the official number assigned by Testing and Irradiation Services to an experiment for purposes of identification.
- b. Request Number - Customer experiment identification number, if any.
- c. Material - The principle target material, if known, abbreviated or its chemical symbol in capital letters.
- d. Piece Number - Individual sample or assembly identification.

Operating Time (Days) - The number of full-power operating days the sample has been exposed.

CMK Absorbed - The total cmk absorbed by the sample. Does not include the facility.

Charge Date - Date and time sample charged into reactor or date and time reactor reached one-half equilibrium level if sample was charged during a reactor outage.

Location

- a. Facility - Test facility or process tube and reactor containing the experiment.
- b. Test Hole Position - Sample position in-reactor relative to a process tube.
- c. Position Factor - Location of sample in relation to front-to-rear cosine flux distribution. (This factor only applies to front-to-rear irradiations.)

NOTE: The actual shape may deviate from a cosine curve due to local perturbations. The actual shape will be provided upon request.

Exposure to Date - NVT - The total thermal neutron exposure per square centimeter received to date. This number is calculated from facility unperturbed flux and reactor operating time.

Discharge, Date and Time - Date and time samples were removed from the active portion of the reactor or date and time reactor was down to one-half equilibrium level if sample was discharged during a reactor outage.

Shipping Date - Date samples were shipped to the customer or otherwise disposed of.

Supervisor
Irradiation Testing

LV Barker/k

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IDENTIFICATION				OPERATING TIME (DAYS)	CMK ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS,														
177		GRAPH	A0J1	290,6882		02-12-68	2150	BTH -C	0-2080	1,000	2,0+21			
177		GRAPH	A0J3	241,9160		02-12-68	2150	BTH -C	0-2068	1,000	1,6+21			
177		GRAPH	A0J4	241,9160		02-12-68	2150	BTH -C	0-2065	1,000	1,6+21			
177		GRAPH	A0K2	241,9160		02-12-68	2150	BTH -C	0-2074	1,000	1,6+21			
177		GRAPH	A0K3	241,9160		02-12-68	2150	BTH -C	0-2071	1,000	1,6+21			
177		GRAPH	A0K5	290,6882		02-12-68	2150	BTH -C	0-2077	1,000	2,0+21			
177		GRAPH	00J2	78,9801		02-12-68	2150	BTH -C	0-2059	1,000	5,3+20			
177		GRAPH	00K8	78,9801		02-12-68	2150	BTH -C	0-2083	1,000	5,3+20			
177		GRAPH	00K9	78,9801		02-12-68	2150	BTH -C	0-2062	1,000	5,3+20			
177		GRAPH	A0A6	187,4631		09-22-67	0608	3ATH-KE	0-2984	1,000	1,7+21			
177		GRAPH	A0D2	187,4631		09-22-67	0608	3ATH-KE	0-2977	1,000	1,7+21			
177		GRAPH	A0D3	187,4631		09-22-67	0608	3ATH-KE	0-2981	1,000	1,7+21			
222		U	P-12	34,2034		04-01-68	0630	3865-KW		1,000	5,5+20			
222		U	P-13	34,2034		04-01-68	0630	3865-KW		1,000	5,5+20			
222		U	P-17	34,2034		04-01-68	0630	3865-KW		1,000	5,5+20			
236		STEEL	4-14	816,7932		02-28-65	1432	2CTH-KW		1,000	1,0+22			
236		ZR-NB	IV29	34,2034		04-01-68	0630	3ATH-KW		1,000	3,2+20			
236		ZR	4-28	218,1583		08-13-67	0615	3ATH-KE		1,000	2,0+21			
236		ZR-NB	IV31	34,2034		04-01-68	0630	3BTH-KW		1,000	4,3+20			
236		SS	4-24	128,8568		12-07-67	0738	3CTH-KW		1,000	1,6+21			
236		ZIRC	4-30	102,9575		01-14-68	2019	3CTH-KW		1,000	1,3+21			
236		ZIRC	4-25	102,9575		01-14-68	2019	3DTH-KW		1,000	9,6+20			
259		HASTLY	0A-G	898,9907		12-25-64	2255	ETH -C	0-2177	1,000	3,5+21			
259		HASTLY	0A-H	898,9907		12-25-64	2255	ETH -C	0-2175	1,000	3,5+21			
259		HAST	0I-3	78,9806		02-12-68	2150	ETH -C		1,000	3,1+20			
271		VRS	0087	107,7989		01-08-68	0142	2DTH-KE		1,000	1,0+21			
307		FLXMON	0001	972,7932		10-20-64	0526	3BTH-KW		1,000	1,2+22			
372		S-CON	0S-3	277,7328		06-09-67	0038	3CTH-KE		1,000	3,5+21			
376		VRS	0001	186,8631		09-22-67	0608	2DTH-KE	6-2273	1,000	1,7+21			
376		VRS	0002	186,8631		09-22-67	0608	2DTH-KE	6-2272	1,000	1,7+21			
376		VRS	0003	186,8631		09-22-67	0608	2DTH-KE	6-2271	1,000	1,7+21			
376		VRS	0004	186,8631		09-22-67	0608	2DTH-KE	6-2270	1,000	1,7+21			
376		VRS	0005	186,8631		09-22-67	0608	2DTH-KE	6-2269	1,000	1,7+21			
376		VRS	0006	186,8631		09-22-67	0608	2DTH-KE	6-2268	1,000	1,7+21			
376		VRS	0007	186,8631		09-22-67	0608	2DTH-KE	6-2267	1,000	1,7+21			
376		VRS	0008	186,8631		09-22-67	0608	2DTH-KE	6-2266	1,000	1,7+21			
376		VRS	0009	186,8631		09-22-67	0608	2DTH-KE	6-2265	1,000	1,7+21			
376		VRS	0010	186,8631		09-22-67	0608	2DTH-KE	6-2264	1,000	1,7+21			

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS ARE IN PROGRESS,														
376		VRS	0011	186,8631		09-22-67	0608	2DTH-KE	6-2263	1.000	1,7+21			
376		VRS	0012	186,8631		09-22-67	0608	2DTH-KE	6-2262	1.000	1,7+21			
376		VRS	0013	186,8631		09-22-67	0608	2DTH-KE	6-2261	1.000	1,7+21			
376		VRS	0014	186,8631		09-22-67	0608	2DTH-KE	6-2260	1.000	1,7+21			
376		VRS	0015	186,8631		09-22-67	0608	2DTH-KE	6-2259	1.000	1,7+21			
376		VRS	0016	186,8631		09-22-67	0608	2DTH-KE	6-2258	1.000	1,7+21			

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE	
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME		
THE FOLLOWING IRRADIATIONS ARE AWAITING DISPOSITION.															
184		VRS	2783	7,7500		12-22-67	1030	2ATH-KW		1,000	1,3+19	12-30-67	0430		
184		VRS	2784	7,7500		12-22-67	1030	2ATH-KW		1,000	5,2+18	12-30-67	0430		
222		UO	P-11	136,6591		09-16-67	1356	3674-KW		1,000	2,2+21	02-25-68	0209		
222		U	P-16	145,9636		02-08-67	0745	3674-KW		1,000	2,3+21	08-08-67	0745		
222		U	P-14	93,8213		05-27-67	1452	3865-KW		1,000	1,5+21	09-13-67	2312		
222		U	P-18	78,2542		10-09-67	0335	3865-KW		1,000	1,3+21	12-30-67	0000		
243		MOLY	0162	79,7811		10-20-67	0930	4CTH-KW		1,000	1,0+21	05-10-68	1400		

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
172		SALTS	1459	1.0382		04-20-68	1025	ATH -C		1,000	1,6+18	04-21-68	1120	04-22-68
172		SALTS	1460	1.0382		04-20-68	1025	ATH -C		1.000	2,6+18	04-21-68	1120	04-22-68
172		SALTS	1461	1.0382		04-20-68	1025	ATH -C		1,000	3,2+18	04-21-68	1120	04-22-68
172		H2O	1477	.0069		04-30-68	1048	ATH -C		1,000	1,1+16	04-30-68	1058	04-30-68
172		STD	1478	.0069		04-30-68	1125	ATH -C		1.000	1,1+16	04-30-68	1135	04-30-68
172		H2O	1482	.0104		05-03-68	0935	ATH -C		1,000	2,6+16	05-03-68	0950	05-03-68
172		STD	1483	.0417		05-03-68	1000	ATH -C		1,000	1,1+17	05-03-68	1100	05-03-68
172		NA	1490	.0104		05-10-68	1020	ATH -C		1,000	6,2+15	05-10-68	1035	05-11-68
172		STD	1484	2.0000		05-09-68	1000	2ATH-KW		1,000	1,9+19	05-11-68	1000	05-11-68
172		STD	1485	2.0000		05-09-68	1000	2ATH-KW		1,000	1,9+19	05-11-68	1000	05-11-68
172		BIOL	1462	.0208		04-21-68	0930	2DTH-KE		1,000	1,9+17	04-21-68	1000	04-22-68
172		BIOL	1463	.0208		04-21-68	0930	2DTH-KE		1,000	1,9+17	04-21-68	1000	04-22-68
172		BIOL	1464	.0208		04-21-68	0930	2DTH-KE		1,000	1,9+17	04-21-68	1000	04-22-68
172		BIOL	1465	.0208		04-21-68	0930	2DTH-KE		1,000	1,9+17	04-21-68	1000	04-22-68
172		BIOL	1466	.0208		04-21-68	0930	2DTH-KE		1,000	1,9+17	04-21-68	1000	04-22-68
172		BIOL	1467	.0208		04-21-68	0930	2DTH-KE		1,000	1,9+17	04-21-68	1000	04-22-68
172		BIOL	1468	.0208		04-21-68	0930	2DTH-KE		1,000	1,9+17	04-21-68	1000	04-22-68
172		BIOL	1469	.0208		04-21-68	0930	2DTH-KE		1,000	1,9+17	04-21-68	1000	04-22-68
172		FILTER	1470	.0208		04-23-68	1037	2DTH-KE		1,000	1,9+17	04-23-68	1107	04-23-68
172		FILTER	1471	.0208		04-23-68	1037	2DTH-KE		1,000	1,9+17	04-23-68	1107	04-23-68
172		FILTER	1472	.0208		04-23-68	1037	2DTH-KE		1,000	1,9+17	04-23-68	1107	04-23-68
172		FILTER	1473	.0208		04-23-68	1037	2DTH-KE		1,000	1,9+17	04-23-68	1107	04-23-68
172		FILTER	1474	.0208		04-23-68	1037	2DTH-KE		1,000	1,9+17	04-23-68	1107	04-23-68
172		FILTER	1475	.0208		04-23-68	1037	2DTH-KE		1,000	1,9+17	04-23-68	1107	04-23-68
172		FILTER	1476	.0208		04-23-68	1037	2DTH-KE		1,000	1,9+17	04-23-68	1107	04-23-68
172		FILTER	1479	.0208		05-02-68	1105	2DTH-KE		1,000	1,9+17	05-02-68	1135	05-02-68
172		FILTER	1480	.0208		05-02-68	1105	2DTH-KE		1,000	1,9+17	05-02-68	1135	05-02-68
172		FILTER	1481	.0208		05-02-68	1105	2DTH-KE		1,000	1,9+17	05-02-68	1135	05-02-68
172		BIOL	1486	.5000		05-09-68	1035	2DTH-KE		1,000	4,7+18	05-09-68	2235	05-11-68
172		BIOL	1487	.5000		05-09-68	1035	2DTH-KE		1,000	4,7+18	05-09-68	2235	05-11-68
172		BIOL	1488	.5000		05-09-68	1035	2DTH-KE		1,000	4,7+18	05-09-68	2235	05-11-68
172		BIOL	1489	.5000		05-09-68	1035	2DTH-KE		1,000	4,7+18	05-09-68	2235	05-11-68
184		PLAS	0C15	.0007		04-20-68	1015	ATH -C		1,000	1,1+15	04-20-68	1016	04-20-68
184		PLAS	0C16	.0007		04-23-68	1035	ATH -C		1,000	1,1+15	04-23-68	1036	04-23-68
184		PLAS	0C17	.0007		04-24-68	1000	ATH -C		1,000	1,1+15	04-24-68	1001	04-24-68
184		VRS	3008	.8472		04-21-68	1025	2ATH-KW		1,000	7,9+18	04-22-68	0645	04-22-68
184		VRS	3009	.8472		04-21-68	1025	2ATH-KW		1,000	7,9+18	04-22-68	0645	04-22-68
184		VRS	3010	.8549		04-22-68	1014	2ATH-KW		1,000	8,0+18	04-23-68	0645	04-23-68

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IDENTIFICATION				OPERATING TIME (DAYS)	C M K ABSORBED	CHARGE		LOCATION			EXPOSURE TO DATE NVT	DISCHARGE		SHIPPING DATE
TISR NO.	REQUEST NUMBER	MATERIAL	PIECE NO.			DATE	TIME	FACILITY	TEST HOLE POSITION	POSITION FACTOR		DATE	TIME	
THE FOLLOWING IRRADIATIONS WERE SHIPPED DURING THE MONTH														
184		VRS	3011	.8549		04-22-68	1014	2ATH-KW		1,000	8,0+18	04-23-68	0645	04-23-68
184		VRS	3012	.8576		04-23-68	1010	2ATH-KW		1,000	8,0+18	04-24-68	0645	04-24-68
184		VRS	3013	.8576		04-23-68	1010	2ATH-KW		1,000	8,0+18	04-24-68	0645	04-24-68
184		VRS	3014	.8333		04-24-68	1045	2ATH-KW		1,000	7,8+18	04-25-68	0645	04-25-68
184		VRS	3015	.8333		04-24-68	1045	2ATH-KW		1,000	7,8+18	04-25-68	0645	04-25-68
184		VRS	3016	.8854		04-28-68	0930	2ATH-KW		1,000	8,2+18	04-29-68	0645	04-29-68
184		VRS	3017	.8854		04-28-68	0930	2ATH-KW		1,000	8,2+18	04-29-68	0645	04-29-68
184		VRS	3018	.8507		04-29-68	1020	2ATH-KW		1,000	7,9+18	04-30-68	0645	04-30-68
184		VRS	3019	.8507		04-29-68	1020	2ATH-KW		1,000	7,9+18	04-30-68	0645	04-30-68
184		VRS	3020	.8750		04-30-68	0945	2ATH-KW		1,000	8,1+18	05-01-68	0645	05-01-68
184		VRS	3021	.8750		04-30-68	0945	2ATH-KW		1,000	8,1+18	05-01-68	0645	05-01-68
184		VRS	3022	.8681		05-01-68	0955	2ATH-KW		1,000	8,1+18	05-02-68	0645	05-02-68
184		VRS	3023	.8681		05-01-68	0955	2ATH-KW		1,000	8,1+18	05-02-68	0645	05-02-68
184		VRS	3024	.9271		05-05-68	0830	2ATH-KW		1,000	8,6+18	05-06-68	0645	05-06-68
184		VRS	3025	.9271		05-05-68	0830	2ATH-KW		1,000	8,6+18	05-06-68	0645	05-06-68
184		VRS	3026	.8403		05-06-68	1035	2ATH-KW		1,000	7,8+18	05-07-68	0645	05-07-68
184		VRS	3027	.8403		05-06-68	1035	2ATH-KW		1,000	7,8+18	05-07-68	0645	05-07-68
184		VRS	3028	.8611		05-07-68	1005	2ATH-KW		1,000	8,0+18	05-08-68	0645	05-08-68
184		VRS	3029	.8611		05-07-68	1005	2ATH-KW		1,000	8,0+18	05-08-68	0645	05-08-68
184		VRS	3030	.8611		05-08-68	1005	2ATH-KW		1,000	1,5+18	05-09-68	0645	05-09-68
184		VRS	3031	.8611		05-08-68	1005	2ATH-KW		1,000	1,5+18	05-09-68	0645	05-09-68
271		NA	0093	.0139		04-23-68	1820	2DTH-KE		1,000	1,3+17	04-23-68	1840	04-23-68
271		DEP-U	0094	2,9375		05-02-68	1315	2DTH-KE		1,000	2,7+19	05-05-68	1145	05-06-68
384		BORON	0001	.0417		05-14-68	1330	4CTH-KW		1,000	5,3+17	05-14-68	1430	05-15-67

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